


The Timken Company

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Part Number 22212EJW33C4, Spherical Roller Bearings - Steel Cage

Spherical bearings are designed to manage high radial loads even when misalignment, poor lubrication, contamination, extreme speeds or critical application stresses are present.



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Specifications

UPC Code	087796159419
Design Unit	Metric
d - Bore	60 mm
Lubrication Type	Standard Grease
Cage Type	EJ
Cage Material	Steel
Superseded Part	22212CJW33C4

Factors



e - ISO Factor¹ 0.24

Y0 - ISO Factor²	2.78
Y1 - ISO Factor³	2.84
Y2 - ISO Factor⁴	4.23
Reference Thermal Speed Rating (Grease)	4400 rpm
Reference Thermal Speed Rating (Oil)⁵	5500 rpm
Cg - Geometry Factor⁶	0.0551

Dimensions

D - Outer Diameter	110 mm 4.3307 in
B' - Inner Ring Width	28 mm 1.1024 in
B - Outer Ring Width	28 mm 1.1024 in

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius⁷	1.5 mm 0.060 in
r - Outer Ring "To Clear" Radius⁸	1.5 mm 0.06 in
da - Inner Ring Backing Diameter	72.0 mm 2.800 in
Da - Outer Ring Backing Diameter	100.0 mm 4.000 in

Basic Load Ratings

C0 - Static Radial Rating	174000 N 39000 lbf
C1(2) - Dynamic Radial Rating (Two-Rows)	169000 N 38100 lbf

¹ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

² These factors apply for both inch and metric calculations. See engineering

³ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

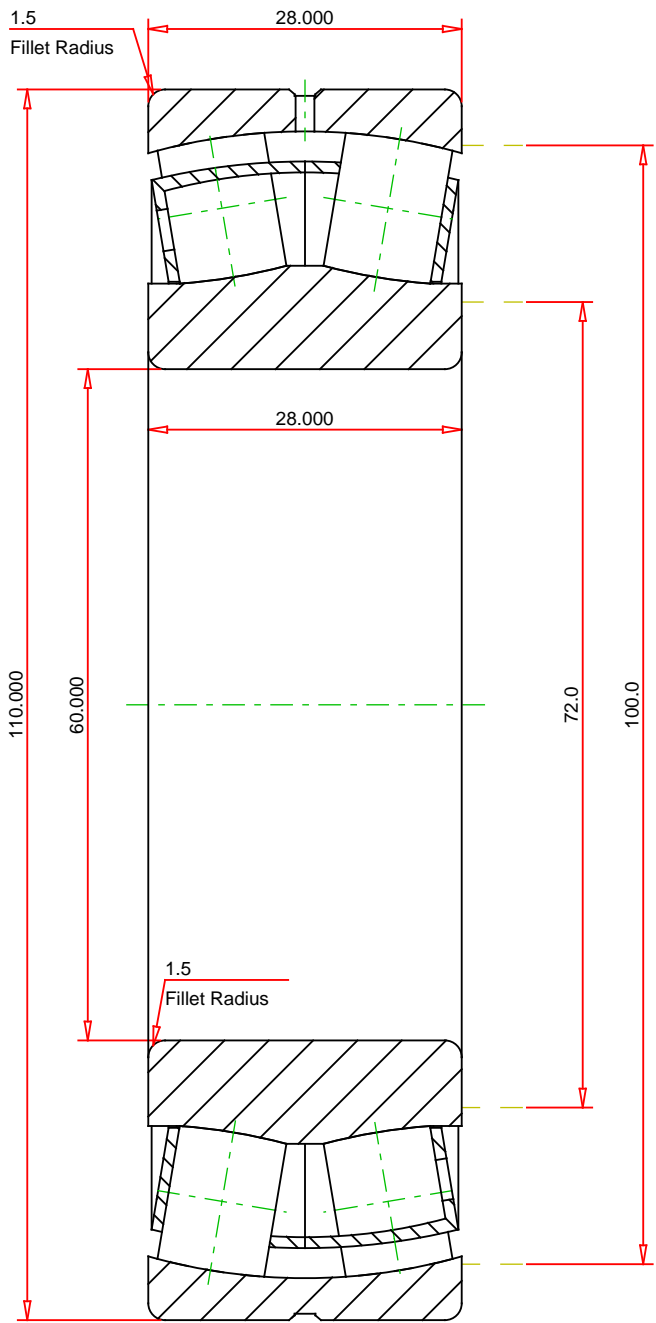
⁴ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁵ See thermal speed ratings in the engineering section.

⁶ Geometry constant for Lubrication Life Adjustment Factor a_3 .

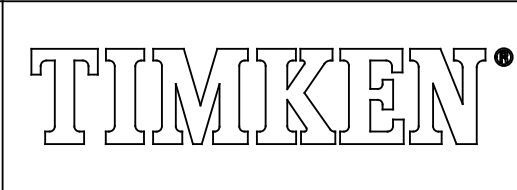
⁷ Maximum housing fillet radius that bearing corners will clear.

⁸ These maximum fillet radii will be cleared by the bearing corners.



METRIC UNITS

Number of Rollers Per Row	17
ISO Factor e	0.24
ISO Factor Y0	2.78
ISO Factor Y1	2.84
ISO Factor Y2	4.23
Bearing Weight	kg
Cage Type	EJ
Cage Material	Steel



THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

22212EJW33C4 SRB ASSEMBLY	
Dynamic Radial Rating (Two Rows)	169000 N
Static Radial Rating	174000 N

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

FOR DISCUSSION ONLY